

ABSTRACT

NEO-CARTILAGE CONSTRUCTS AND A METHOD
FOR PREPARATION THEREOF

5 Neo-cartilage constructs suitable for implantation into a joint cartilage lesion *in situ* and a method for repair and restoration of function of injured, traumatized, aged or 10 diseased cartilage. The construct comprises at least chondrocytes incorporated into a support matrix processed according to the algorithm comprising variable hydrostatic or atmospheric pressure or non-pressure conditions, variable rate of perfusion, variable medium composition, variable temperature, 15 variable cell density and variable time to which the chondrocytes are subjected.